

# **About Vegspec**

Vegspec is a web-based decision support system that assists land managers in the planning and design of vegetative establishment practices.

VegSpec utilizes soil, plant, and climate data to select plant species that are (1) site-specifically adapted, (2) suitable for the selected practice, and (3) appropriate for the purposes and objectives for which the planting is intended.

The VegSpec application has the ability to determine site-specific adaptability of plant species.

## **VegSpec 3.0 Requirements:**

VegSpec design module requires Java enabled Netscape 4.06, or Internet Explorer 4.0, or higher.

Go to the Netscape or Internet Explorer home sites for the latest downloadable browser versions. http://www.microsoft.com/ or http://www.microsoft.com/

## **Starting VegSpec**

Open the Plants home page in an internet browser at

http://plants.usda.gov/

Click on the VegSpec icon to go to the home page.



home page and application.

You can start the Vegspec application from the home page, as well as select other related topics.



Click on the Vegspec image or click **Starting Vegspec** on the top menu bar to start the application.

The following subtopic links are located above the top menu bar:

- FAOs frequently asked questions
- Photo Gallery online photo gallery
- ◆ *PLANTS* Plants database
- Contact Us displays an e-mail window for your comments
- Help online help system TOC and contact-sensitive

The following links are located on the top menu bar:

- ◆ About Vegspec Describes the Vegspec system
- Starting Vegspec starts the VegSpec application
- Related Sites links to other plant-based websites
- Vegspec Team links to sponsors and developers

After starting Vegspec, the following Disclaimer screen is displayed. Click on the site-specific or general option and read the disclaimer text. Click on **ok** to begin.









FAQs | Photo Gallery | PLANTS | Contact Us

The Vegetative Practice Design Application (VegSpec) is an expert system to assist you in finding and selecting adapted plants for use in solving vegetative problems.

It is critical that you always use the Vegspec navigation buttons near the top of your browser window when moving from screen to screen. Do not use the browser back or forward arrows, If you use these arrows, your selection will not be saved and your results will not be consistent.

Please keep in mind that this program is still under development and may be unstable as we add new features.

Note: The Vegspec design module requires Java enabled Netscape 4.06, or Internet Explorer 4.0, or higher.

#### Disclaimer

Under no circumstances can VegSpec's sponsors, designers, engineers, and other affiliates be responsible for any activities which result from its use.

We highly recommend that users contact persons knowledgeable about the use of vegetation for resource purposes and seek additional information about plants proposed by VegSpec. Resources include the local office of the USDA Natural Resource Conservation Service or the Agricultural Extension Service.



Click on **ok** to enter the VegSpec System.

#### Site Specific vs. General approach:

Vegspec now has a general or a site-specific option to choose before starting your practice designs.

Select the **Site Specific** option to narrow down plant choices by state, mlra, soil, and climate options. This is the recommended method as the vegetative list is more user-specific and regionally accurate.

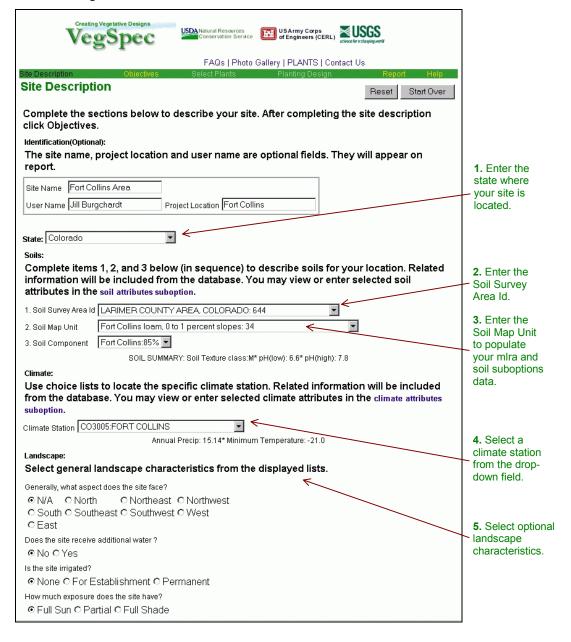
Users may select the **General** option for a generalized plant list. You **must** select a Plant Adaptation Zone under the Soil Attributes Suboption to even get close to an appropriate list of plants. *Note:* The Planting Design section is not available in this option.

Do not use the browser back and forward buttons to navigate, as screen choices might be lost.

# **Site Description**

Site Description is the first section of the VegSpec application. If you have selected the recommended site-specific approach, you must enter your state, soils, and climate information before continuing to another section. If this section is not fully completed, warnings are displayed.

If you have selected the general approach, this section does not have to be filled out completely before selecting a different section. The Planting Design section is not available, and your plants list can be longer.



# **Objectives**

The Objectives section allows you to select applicable vegetative practice and purposes for your site. It is important to select a vegetative practice, as this helps narrow your plants list considerably.

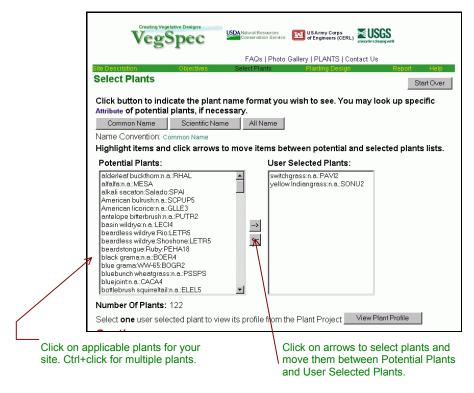


After selecting a practice, a list of purposes is displayed. Optionally, select one or more purposes and click on **Accept Purpose**, to display a list of subpurposes. You may select other options such as plant characteristics. Additional selections refine your plants list for your site specific objectives.

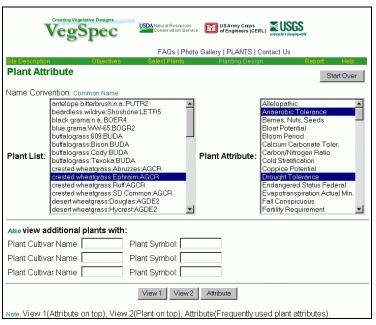
targets plants that are applicable.

## **Select Plants**

The Select Plants section is where you select applicable plants from a Potential Plants list. The plants listed are based on the vegetative choices you have designated.



#### **Plant Attributes**



Click Attributes on the Select Plants page to screen potential plants for selected attributes. The Attributes button on several other screens presents attributes for selected plants only.

# **Planting Design**

The Planting Design is available for vegetative calculation and plant design specifications if you have selected the site-specific approach. This section is only available if you have selected the site-specific approach.

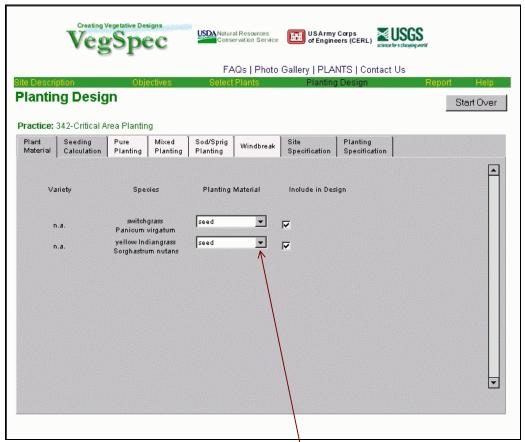
The load time for this Java program can take 1-5 minutes, depending on internet traffic and connection speed.

## There are eight tabular vegetative choices:

- Plant Material
- Seeding Calculation
- Pure Planting
- Mixed Planting
- Sod/Sprig Planting
- Windbreak
- Site Specification
- Planting Specification

#### **Plant Material**

Depending on your vegetative choices, you will have applicable plant material options such as container, bareroot, or seed.

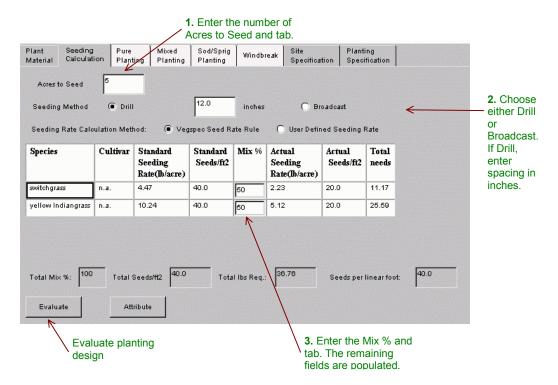


Select a plant material for each plant species from the drop-down fields.

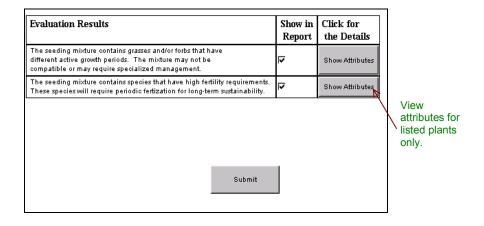
## **Seeding Calculation**

Determine your total needs for how many seeds per acre your vegetative site will need. You can mix percentages for different compatible plants, but the mix % should total 100% for accurate calculations.

The example below is using Drill as the Seeding Method.



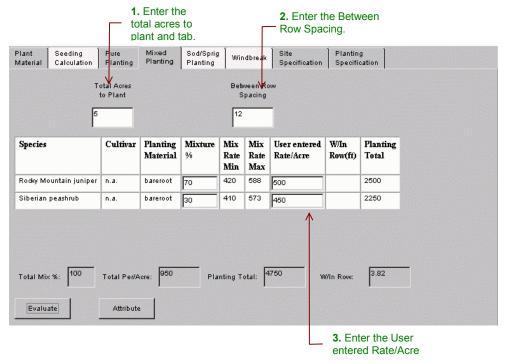
Click the Evaluate button available on several planting screens to view planting concerns.



#### **Planting Calculation**

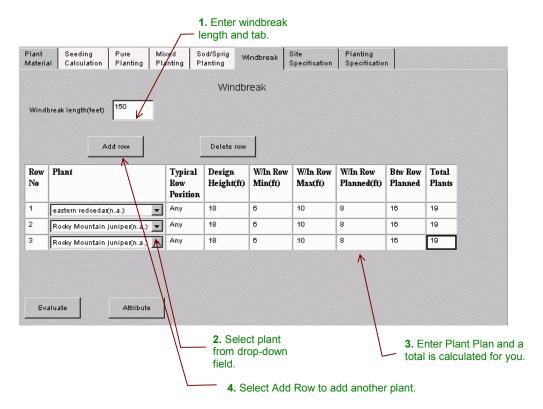
Depending on whether you are performing Mixed or Pure Planting, you can determine the rate/acre total number of plants needed between and/or within the rows.

(Note: Example below shows steps for mixed planting with different row spacing.)



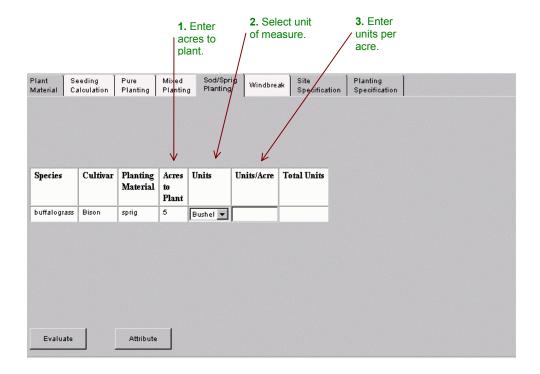
#### Windbreak

Determine the total plants needed for your user-specified windbreak design.



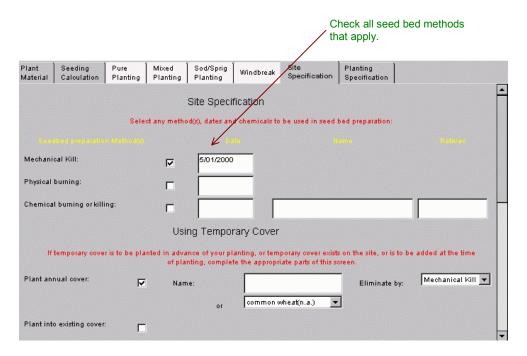
## **Sprig**

Sod/Sprig Planting allows you to designate the preferred units and units per acre. Application calculates Total Units after you enter Acres to Plant, Units, and Units/Acre.



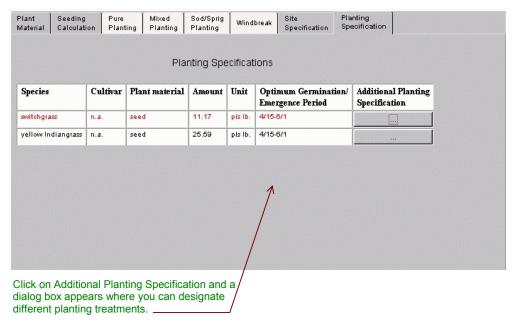
## **Site Specification**

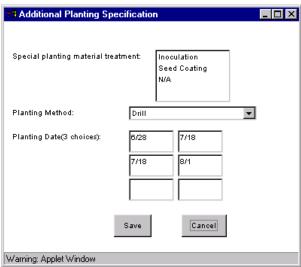
Site Specification is where you can designate seedbed preparation methods and temporary cover.



# **Planting Specification**

Planting Specification allows you to determine any special planting material treatments.





# Reports

VegSpec reports are a product of your vegetative practice options and are customized by you. Your report displays your vegetative options with data tables, site specification tips, and planting calculations.